

# **Tencent Kubernetes Engine Image Registries Product Introduction**



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# Image Registries

## Getting Started with Image Registries

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### Activating Image Repository

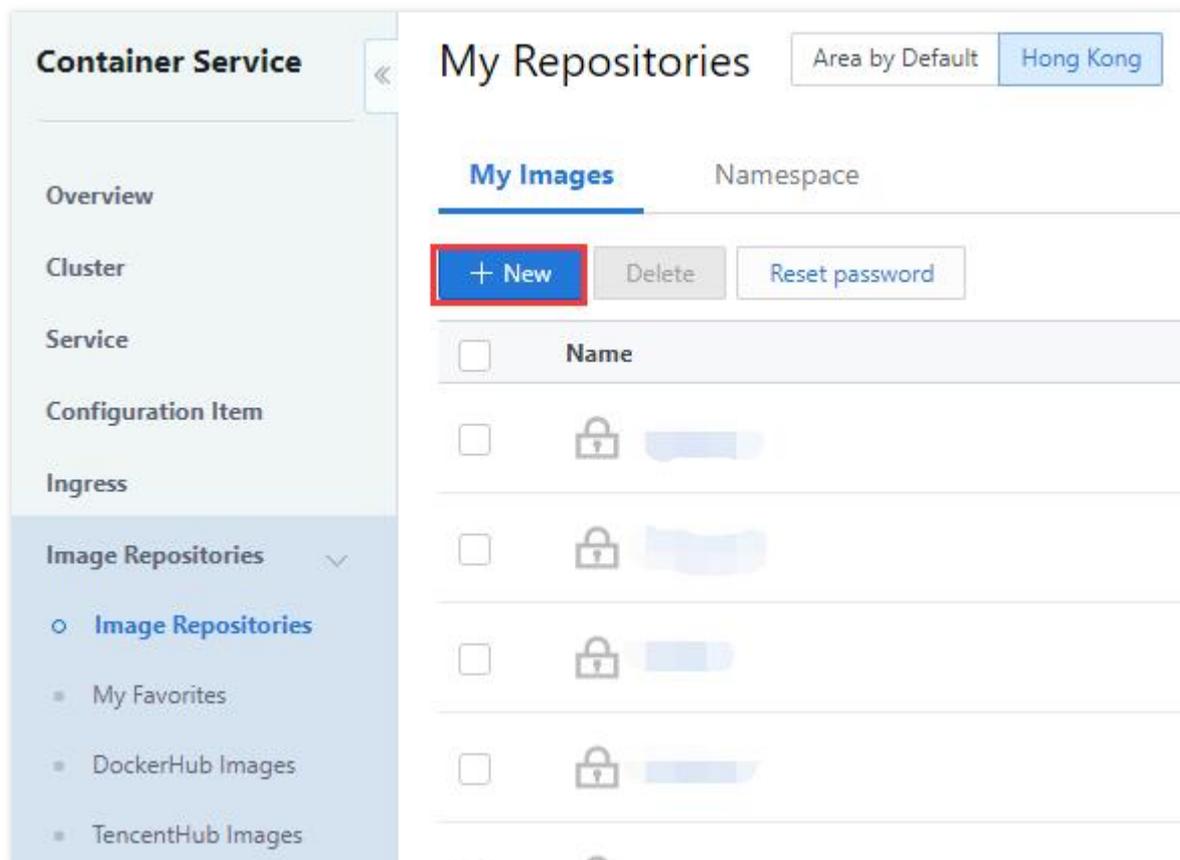
The screenshot shows the 'My Repositories' configuration page in the Tencent Cloud console. On the left is a sidebar with the following menu items: Container Service, Overview, Cluster, Service, Configuration Item, Ingress, Image Repositories (expanded), Image Repositories (selected), My Favorites, DockerHub Images, and TencentHub Images. The main content area is titled 'My Repositories' and includes a dropdown for 'Area by Default' set to 'Hong Kong'. A blue warning banner states: 'Initialization is needed before the first use of "My Image Registry".Namespace'. Below this are three input fields: 'User Name' (with a greyed-out placeholder), 'Password' (with the placeholder 'Enter the password'), and 'Confirm password' (with the placeholder 'Enter your password again'). At the bottom of the form is a blue 'Enable' button.

Users who use Image Registry for the first time need to activate this service first.

- **Namespace:** This is the prefix for the addresses of private images you create.
- **User name:** By default, this is the account of the current user. You need to use this ID to log in to Tencent Cloud Docker Image Registry.
- **Password:** This is the credential used to log in to Tencent Cloud Docker Image Registry.

### Create Image

1. Click the **New** button on the image list page.



2. Enter name and description of the image, then click **Submit**.

### Create an Image Repository ✕

Name   
A maximum of 200 characters comprised of only lowercase letters, numbers and delimiters (".", "\_", "-"), and cannot begin or end with a delimiter

Type

Namespace

description

## Pushing Image to Image Repository

### Log in to Tencent Cloud Registry

```
$ sudo docker login --username=[username] ccr.ccs.tencentyun.com
```

username: Tencent Cloud account registered upon service activation. Enter the password to complete login process.

### Upload Image

```
$ sudo docker tag [ImageId] ccr.ccs.tencentyun.com/[namespace]/[ImageName]:[Image Tag Number]
$ sudo docker push ccr.ccs.tencentyun.com/[namespace]/[ImageName]:[Image Tag Number]
```

- "ImageId" and image tag number should be entered according to image information
- "namespace" is the namespace entered when activating your image repository

- "ImageName" is the image name created on the console

## Downloading Image

Enter the password and log in to image repository.

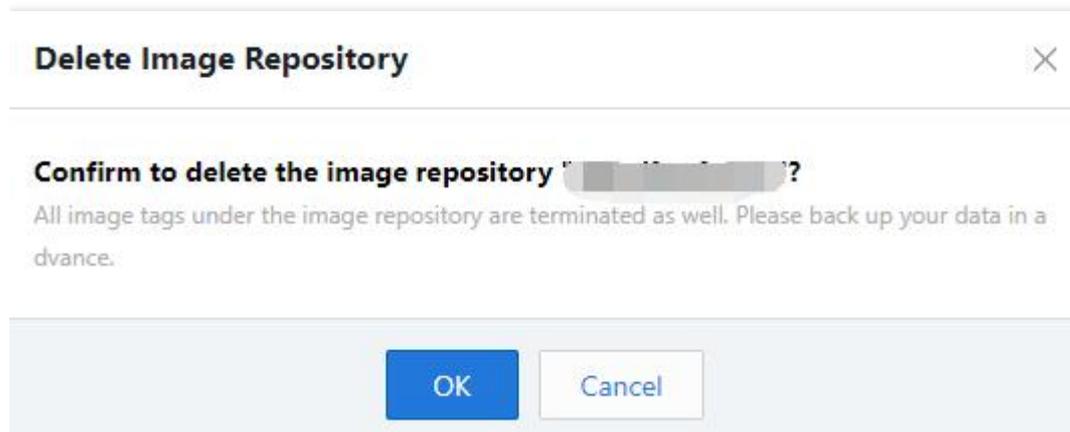
```
$ sudo docker login --username=[username] ccr.ccs.tencentyun.com
```

Download the image.

```
$ sudo docker pull ccr.ccs.tencentyun.com/[namespace]/[ImageName]:[Image tag number]
```

## Deleting Image

Select an image, click **Delete**, and then click **OK**. All tags of the image will be deleted if you delete the image.



# Using Docker Hub Accelerators

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Source address of Docker: `https://mirror.ccs.tencentyun.com`

## TKE Cluster CVM

When a node is created, Docker service is installed and image is configured automatically, without the need of manual configuration. The configuration items are as follows:

```
[root@VM_1_2_centos ~]# cat /etc/docker/dockerd
IPTABLES="--iptables=false"
STORAGE_DRIVER="--storage-driver=overlay2"
IP_MASQ="--ip-masq=false"
LOG_LEVEL="--log-level=warn"
REGISTRY_MIRROR="--registry-mirror=https://mirror.ccs.tencentyun.com"
```

## CVM Configuration

### Linux:

- Applicable to Ubuntu14.04, Debian, CentOS6, Fedora and OpenSUSE. For other versions, the configuration may be slightly different.

Docker configuration file `/etc/default/docker` is modified as follows:

```
DOCKER_OPTS="--registry-mirror=https://mirror.ccs.tencentyun.com"
```

- Applicable to Centos7.

The Docker configuration file `vi /etc/sysconfig/docker` is modified as follows:

```
OPTIONS='--registry-mirror=https://mirror.ccs.tencentyun.com'
```

### Note:

Only Docker 1.3.2 or above supports Docker Hub Mirror mechanism. If you have not installed Docker or the installed version is too low, please install it or upgrade your version.

## Windows:

If you are using Boot2Docker, go to Boot2Docker Start Shell and execute the following command:

```
sudo su echo "EXTRA_ARGS=\"-registry-mirror=https://mirror.ccs.tencentyun.com\"" >> /var/lib/boot2docker/profile exit # RestartBoot2Docker
```

## Launching Docker

Execute the following command:

```
sudo service docker start
```